



JOC3H4X Series

Rev.A.1.0

DESCRIPTION:

The JOC3H4X series combine two AlGaAs infrared emitting diodes as the emitter which is optically coupled to a silicon planar phototransistor detector in a plastic SSOP4 package with the robust coplanar double mold structure, JOC3H4X series provide the most stable isolation feature. The products are widely used in switch mode power supplies, programmable controllers, household appliances, office equipment.

MAIN FEATURES

- High isolation 3750 VRMS
- CTR flexibility available see order information
- AC input with transistor output
- Operating temperature -55°C to 110°C
- REACH compliance
- Halogen free
- MSL class 1

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Parameter	Symbol	Value	Unit
Forward Current	I _F		
Input			

ELECTRICAL CHARACTERISTICS (Temperature=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V_F	$I_F=\pm 10\text{mA}$	-	1.24	1.4	V
			$I_F=\pm 20\text{mA}$	-	1.28	1.5	
	Input Capacitance	C_{in}	$V=0,$ $f=1\text{MHz}$	-	10	-	pF
Output	Collector-Emitter dark current	I_{CEO}	$V_{CE}=20\text{V},$ $I_F=0$	-	-	50	nA
	Collector-Emitter breakdown voltage	BV_{CEO}	$I_C=0.1\text{mA}$ $I_F=0$	80	-	-	V
	Emitter-Collector breakdown voltage	BV_{ECO}	$I_E=0.1\text{mA}$ $I_F=0$	6	-	-	V
	Current transfer ratio	CTR'	$I_F=\pm 1\text{mA}$ $V_{CE}=5\text{V}$	20	-	300	%
	Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_F=\pm 20\text{mA}$ $I_C=1\text{mA}$				

Transfer
Characteristics

ORDERING AND MARKING INFORMATION

MARKING INFORMATION			
		<p>JOC : Company Abbr. 3H4 : Part Number X : CTR Rank YAWW : LOT NO.</p>	
ORDERING INFORMATION			
JOC3H4X(Z)-G			
<p>JOC- Company Abbr. 3H4- Part Number X- Rank (A/None) Z- Tape and Reel Option (TR)</p>			
Packing Quantity			
Option	Quantity	Quantity – Inner box	Quantity –Outer box

Test Circuits

FIG.11: Test Circuits of Response Time

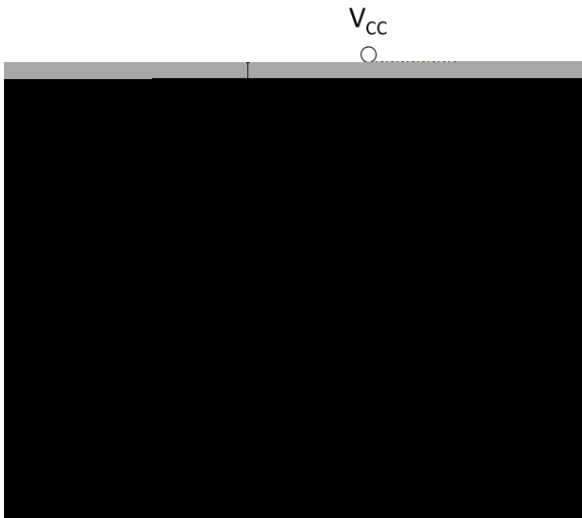


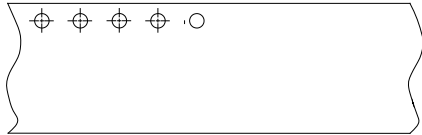
FIG.12: Curves of Response Time



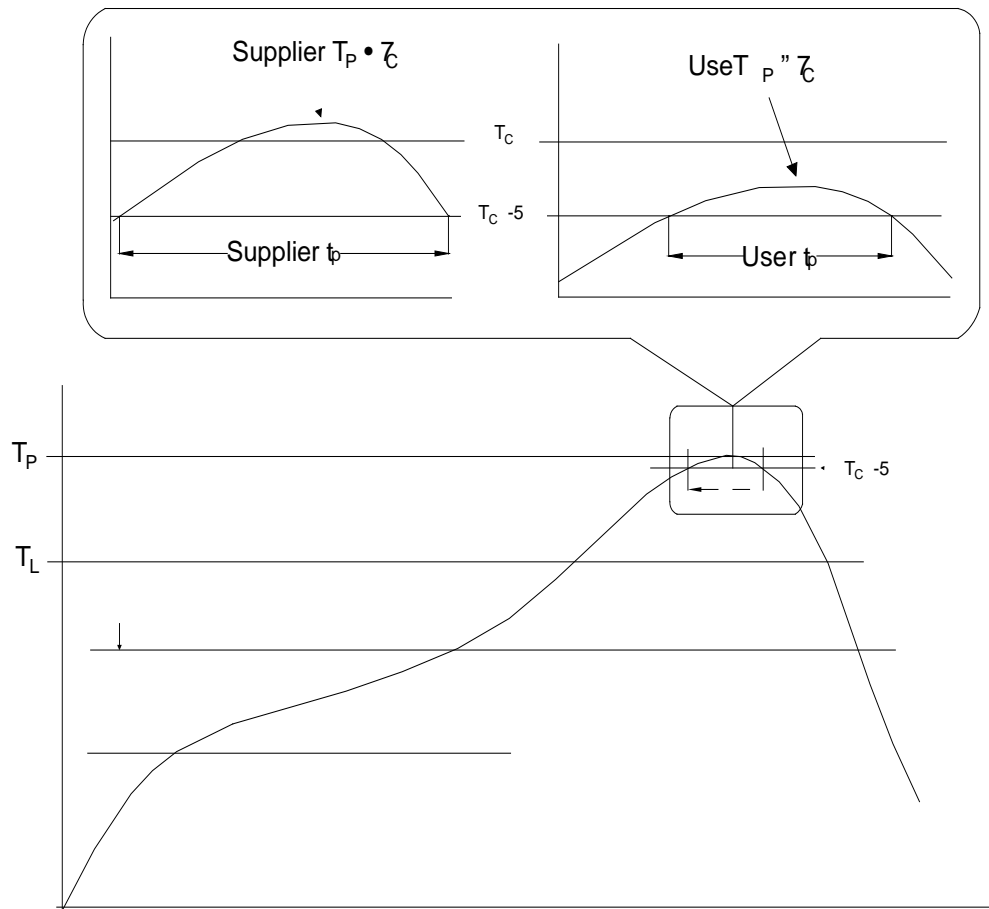
FIG.13: Test Circuits of Frequency Response

CARRIER TAPE SPECIFICATIONS Dimensions in mm unless otherwise stated

Option T1



REFLOW INFORM-9.9-12CTION



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